PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference H0002285	FOR FURTHER see Notification (Form PCT/ISA/	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 02/28266	29/08/2002	30/08/2001
Applicant		
HONEYWELL INTERNATIONAL	INC.	
This International Search Report has be according to Article 18. A copy is being	en prepared by this International Searching Auttransmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consis	ts of a total of <u>6</u> sheets. by a copy of each prior art document cited in this	report.
Basis of the report		
	e international search was carried out on the banless otherwise indicated under this item.	sis of the international application in the
the international search Authority (Rule 23.1(b))	was carried out on the basis of a translation of	he international application furnished to this
was carried out on the basis of t		nternational application, the international search
<u> </u>	ternational application in computer readable for	m.
-	to this Authority in written form.	
	to this Authority in computer readble form.	
the statement that the s	ubsequently furnished written sequence listing a as filed has been furnished.	does not go beyond the disclosure in the
the statement that the ir furnished	nformation recorded in computer readable form	s identical to the written sequence listing has been
2. X Certain claims were fo	und unsearchable (See Box I).	
3. Unity of invention is la	cking (see Box II).	
4. With regard to the title ,		
the text is approved as	submitted by the applicant.	
the text has been estable	lished by this Authority to read as follows:	
C. With second to the shape		
5. With regard to the abstract ,	submitted by the applicant.	
the text has been estab	iished, according to Rule 38.2(b), by this Author he date of mailing of this international search re	
6. The figure of the drawings to be pu	blished with the abstract is Figure No.	1
X as suggested by the app	plicant.	None of the figures.
because the applicant fa	ailed to suggest a figure.	

Form PCT/ISA/210 (first sheet) (July 1998)

International Application No PCT/US 02/28266

A.	CLA	SSIFIC	ATIO	N OF	SUB	JECT	MA	TTER
TF	C .	ssific 7	H02	K 1	/24			

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ IPC~7 & H02K & H01J \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Α	PATENT ABSTRACTS OF JAPAN vol. 009, no. 159 (E-326), 4 July 1985 (1985-07-04) & JP 60 035931 A (HITACHI SEISAKUSHO KK), 23 February 1985 (1985-02-23) abstract	1-10			
А	PATENT ABSTRACTS OF JAPAN vol. 009, no. 173 (E-329), 18 July 1985 (1985-07-18) & JP 60 046746 A (TOSHIBA KK), 13 March 1985 (1985-03-13) abstract	1-10			
А	DE 44 36 257 A (SIEMENS AG) 4 April 1996 (1996-04-04) abstract; figure 3	1-10			

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 6 December 2002	Date of mailing of the international search report $16/12/2002$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Tangocci, A

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PCT/US 02/28266

	Action) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, or the relevant passages	Too vant to orann 140.
A	US 5 298 823 A (JOHNSEN TYRONE A) 29 March 1994 (1994-03-29) abstract; figures 1-4	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 007, no. 292 (E-219), 27 December 1983 (1983-12-27) & JP 58 165638 A (TOKYO SHIBAURA DENKI KK), 30 September 1983 (1983-09-30) abstract	1-10
Ą	US 5 325 009 A (CAPION ROBERT L ET AL) 28 June 1994 (1994-06-28) column 4, line 52 -column 5, line 50; figure 2	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 299142 A (SHINKO ELECTRIC CO LTD), 29 October 1999 (1999-10-29) abstract	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 005, no. 055 (E-052), 16 April 1981 (1981-04-16) & JP 56 006636 A (MATSUSHITA ELECTRIC WORKS LTD), 23 January 1981 (1981-01-23) abstract	1–10
А	PATENT ABSTRACTS OF JAPAN vol. 009, no. 185 (E-332), 31 July 1985 (1985-07-31) & JP 60 055846 A (TOYO DENKI SEIZO KK), 1 April 1985 (1985-04-01) abstract	1-10
Α	PATENT ABSTRACTS OF JAPAN vol. 004, no. 141 (E-028), 4 October 1980 (1980-10-04) & JP 55 094549 A (TOSHIBA CORP), 18 July 1980 (1980-07-18) abstract	1-10

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

The subject-matter of claim 1 is not entirely supported in the description in the sense of Article 6 PCT: in the description, middle of page 7, it is said that the supports (170a-d) are meant to provide proper support, alignment and retention of the end turns (160a-d) as they curve around the spokes (130a-d). It is further said that said supports surround the corresponding spokes on three of their sides. In other words, from the description and the figures it is clear that said supports are positioned at the AXIAL ENDS of the spokes and provide support for the END TURNS of the coil windings, whilst in claim $1\ \text{it}$ is merely said that said plurality of supports are positioned proximate respective spokes, and that coils of wire windings are wrapped around said supports. Nowhere in the claims are the end turns mentioned. Therefore claim 1 is not fully supported by the description. Moreover, another contradiction between the claims and the description concerns the reference number (190a-d) which has been attributed to CAP HATS in the description, bottom of page 7 to bottom of page 8, whilst in claim 1 the reference number (190a-d) has been given to CAP DÉVICES, which are said to include CAP HATS in claim 5. This is not clear in the sense of Article 6 PCT, because cap devices are not mentioned in the description, and the cap hats (190a-d) are first mentioned in claim 5. Moreover, from the wording of claim 1 it is not entirely clear what is meant by "ends of the spokes (130a-d)", middle of claim 1: said ends could be radial ends or axial ends. Article 6 PCT.

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	Location of the state of the st	Have 4 of first sheet)
Box I	Observations where certain claims were found unsearchable (Continuation of	item i of first sheet)
This Int	nternational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
÷		
2. X	Claims Nos.: — because they relate to parts of the International Application that do not comply with the prescrian extent that no meaningful International Search can be carried out, specifically:	bed requirements to such
	see FURTHER INFORMATION sheet PCT/ISA/210	
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and the	rd sentences of Rule 6.4(a).
Box II	II Observations where unity of invention is lacking (Continuation of item 2 of fir	st sheet)
This Int	nternational Searching Authority found multiple inventions in this international application, as follo	NS:
		w ^r
1.	As all required additional search fees were timely paid by the applicant, this International Searchable claims.	ch Report covers all
r	· 	
2.	As all searchable claims could be searched without effort justifying an additional fee, this Auth of any additional fee.	ority did not invite payment
:		
3.	As only some of the required additional search fees were timely paid by the applicant, this Inte- covers only those claims for which fees were paid, specifically claims Nos.:	ernational Search Report
, _	No required additional search fees were timely paid by the applicant. Consequently, this Interior	national Search Report is
4	restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	iculation decision toportio
Remari	ark on Protest The additional search fees were accompa	anied by the applicant's protest.
· ioinaii		
	No protest accompanied the payment of	additional search lees.

Information on patent family members

International Application No PCT/US 02/28266

Patent document cited in search report		Publication date		Patent family member(s)	Publication date	on
JP 60035931	Α	23-02-1985	NONE			
JP 60046746	Α	13-03-1985	NONE			
DE 4436257	Α	04-04-1996	DE	4436257 A	1 04-04-	1996
US 5298823	Α	29-03-1994	NONE			
JP 58165638	Α	30-09-1983	JP JP	1621650 C 2047193 B		
US 5325009	Α	28-06-1994	NONE			
JP 11299142	Α	29-10-1999	NONE			
JP 56006636	A	23-01-1981	NONE			
JP 60055846	A	01-04-1985	NONE		· · · · · · · · · · · · · · · · · · ·	
JP 55094549	Α	18-07-1980	NONE			